

## 2 Low-Rank Approximation

Low-rank approximation tries to find an approximation to a given matrix, where the approximation matrix has a lower rank compared to the original matrix. This is useful for mathematical modeling and data compression. Mathematically, given a matrix  $M$ , we try to find  $\hat{M}$  in the following optimization problem,

$$\underset{\hat{M}}{\operatorname{argmin}} \|M - \hat{M}\|_F \quad \text{subject to} \quad \operatorname{rank}(\hat{M}) \leq k \quad (1)$$

where  $\|A\|_F = \sqrt{\sum_i \sum_j a_{ij}^2}$  is the Frobenius norm, i.e., the sum of squares of all entries in the matrix, followed by a square root.

This problem can be solved using Singular Value Decomposition (SVD). Specifically, let  $M = U\Sigma V^T$ , where  $\Sigma = \operatorname{diag}(\sigma_1, \dots, \sigma_n)$ . Then a rank- $k$  approximation of  $M$  can be written as  $\hat{M} = U\hat{\Sigma}V^T$ , where  $\hat{\Sigma} = \operatorname{diag}(\sigma_1, \dots, \sigma_k, 0, \dots, 0)$ . In this problem, we aim to perform this approximation method on gray-scale images, which can be thought of as a 2D matrix.

- (a) Using the image `low-rank_data/face.jpg`, perform a rank-5, rank-20, and rank-100 approximation on the image. Show both the original image as well as the low-rank images you obtain in your report.
- (b) Now perform the same rank-5, rank-20, and rank-100 approximation on `low-rank_data/sky.jpg`. Show both the original image as well as the low-rank images you obtain in your report.
- (c) In one plot, plot the Mean Squared Error (MSE) between the rank- $k$  approximation and the original image for both `low-rank_data/face.jpg` and `low-rank_data/sky.jpg`, for  $k$  ranging from 1 to 100. Be sure to label each curve in the plot. The MSE between two images  $I, J \in \mathbb{R}^{w \times h}$  is

$$\operatorname{MSE}(I, J) = \sum_{i,j} (I_{i,j} - J_{i,j})^2. \quad (2)$$

# Low Rank Approximation Low Rank Approximation

**Jeffrey A. Fessler, Raj Rao Nadakuditi**



**Low Rank Approximation Low Rank Approximation:**

## The Enigmatic Realm of **Low Rank Approximation Low Rank Approximation**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Low Rank Approximation Low Rank Approximation** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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### Table of Contents **Low Rank Approximation Low Rank Approximation**

1. Understanding the eBook **Low Rank Approximation Low Rank Approximation**
  - The Rise of Digital Reading **Low Rank Approximation Low Rank Approximation**
  - Advantages of eBooks Over Traditional Books
2. Identifying **Low Rank Approximation Low Rank Approximation**
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an **Low Rank Approximation Low Rank Approximation**
  - User-Friendly Interface
4. Exploring eBook Recommendations from **Low Rank Approximation Low Rank Approximation**
  - Personalized Recommendations
  - **Low Rank Approximation Low Rank Approximation** User Reviews and Ratings
  - **Low Rank Approximation Low Rank Approximation** and Bestseller Lists

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  - Low Rank Approximation Low Rank Approximation Public Domain eBooks
  - Low Rank Approximation Low Rank Approximation eBook Subscription Services
  - Low Rank Approximation Low Rank Approximation Budget-Friendly Options
6. Navigating Low Rank Approximation Low Rank Approximation eBook Formats
  - ePub, PDF, MOBI, and More
  - Low Rank Approximation Low Rank Approximation Compatibility with Devices
  - Low Rank Approximation Low Rank Approximation Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Low Rank Approximation Low Rank Approximation
  - Highlighting and Note-Taking Low Rank Approximation Low Rank Approximation
  - Interactive Elements Low Rank Approximation Low Rank Approximation
8. Staying Engaged with Low Rank Approximation Low Rank Approximation
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Low Rank Approximation Low Rank Approximation
9. Balancing eBooks and Physical Books Low Rank Approximation Low Rank Approximation
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Low Rank Approximation Low Rank Approximation
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Low Rank Approximation Low Rank Approximation
  - Setting Reading Goals Low Rank Approximation Low Rank Approximation
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Low Rank Approximation Low Rank Approximation
  - Fact-Checking eBook Content of Low Rank Approximation Low Rank Approximation
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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